

REPLACEMENT
SHEET

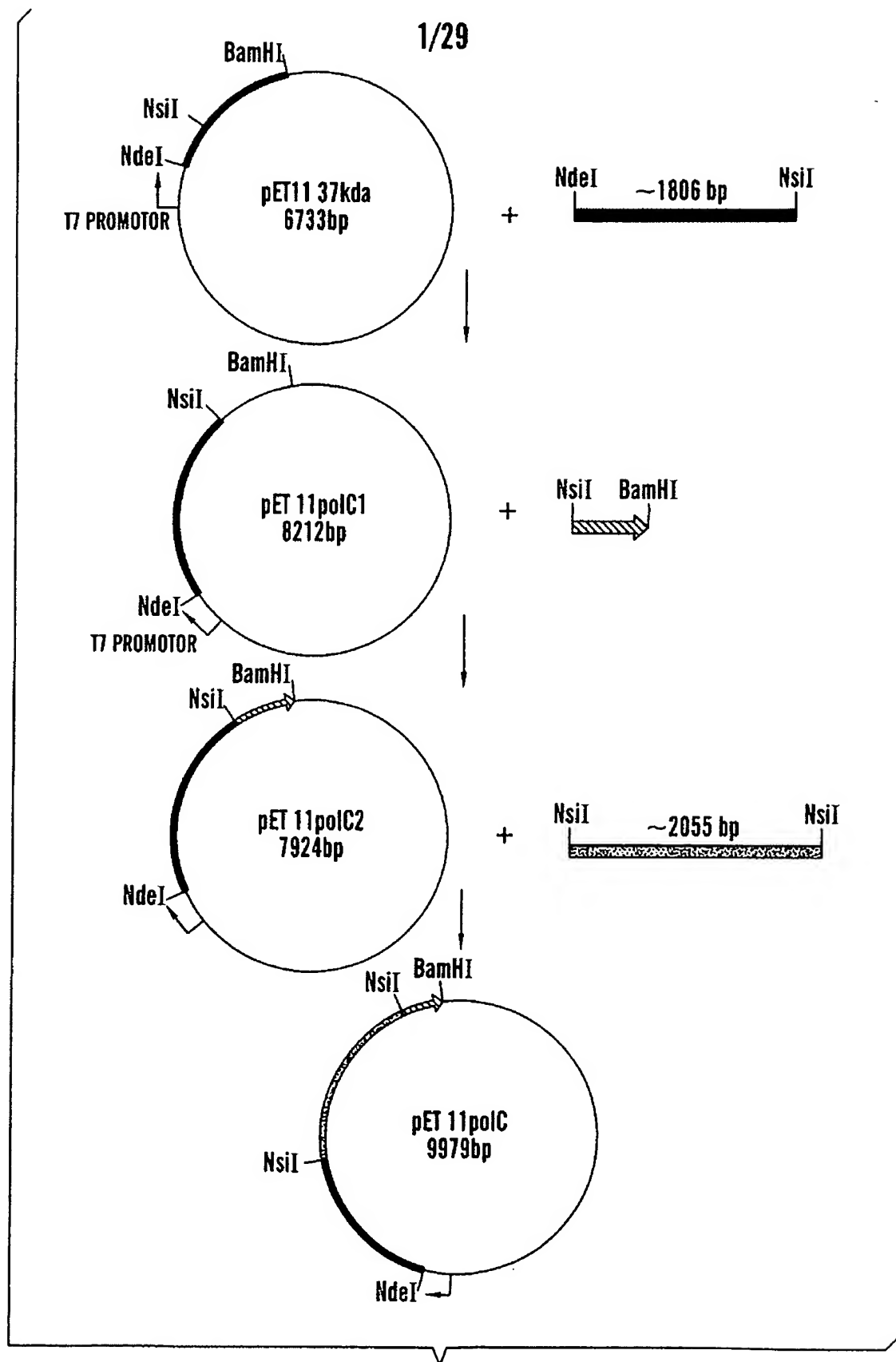


FIG. 1

REPLACEMENT SHEET

2/29

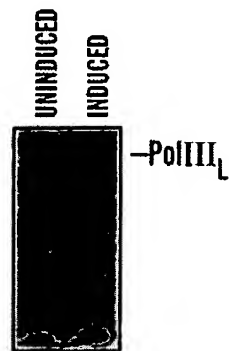


FIG. 2A

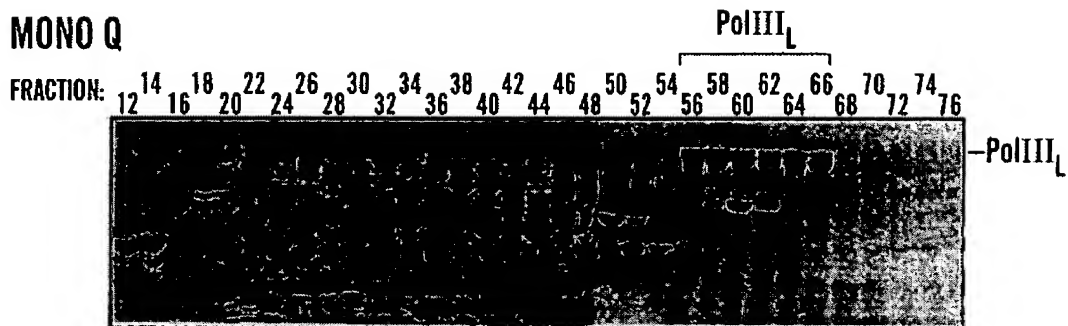


FIG. 2B

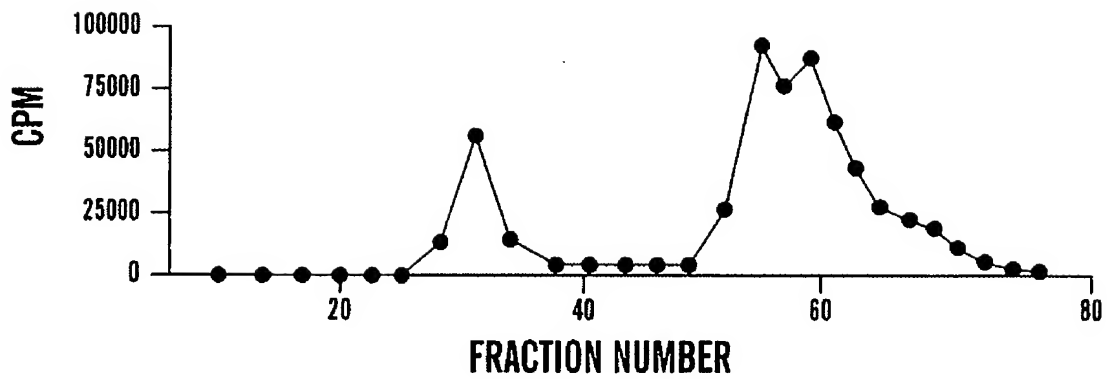


FIG. 2C

PHOSPHOCELLULOSE



FIG. 2D

REPLACEMENT
SHEET

3/29

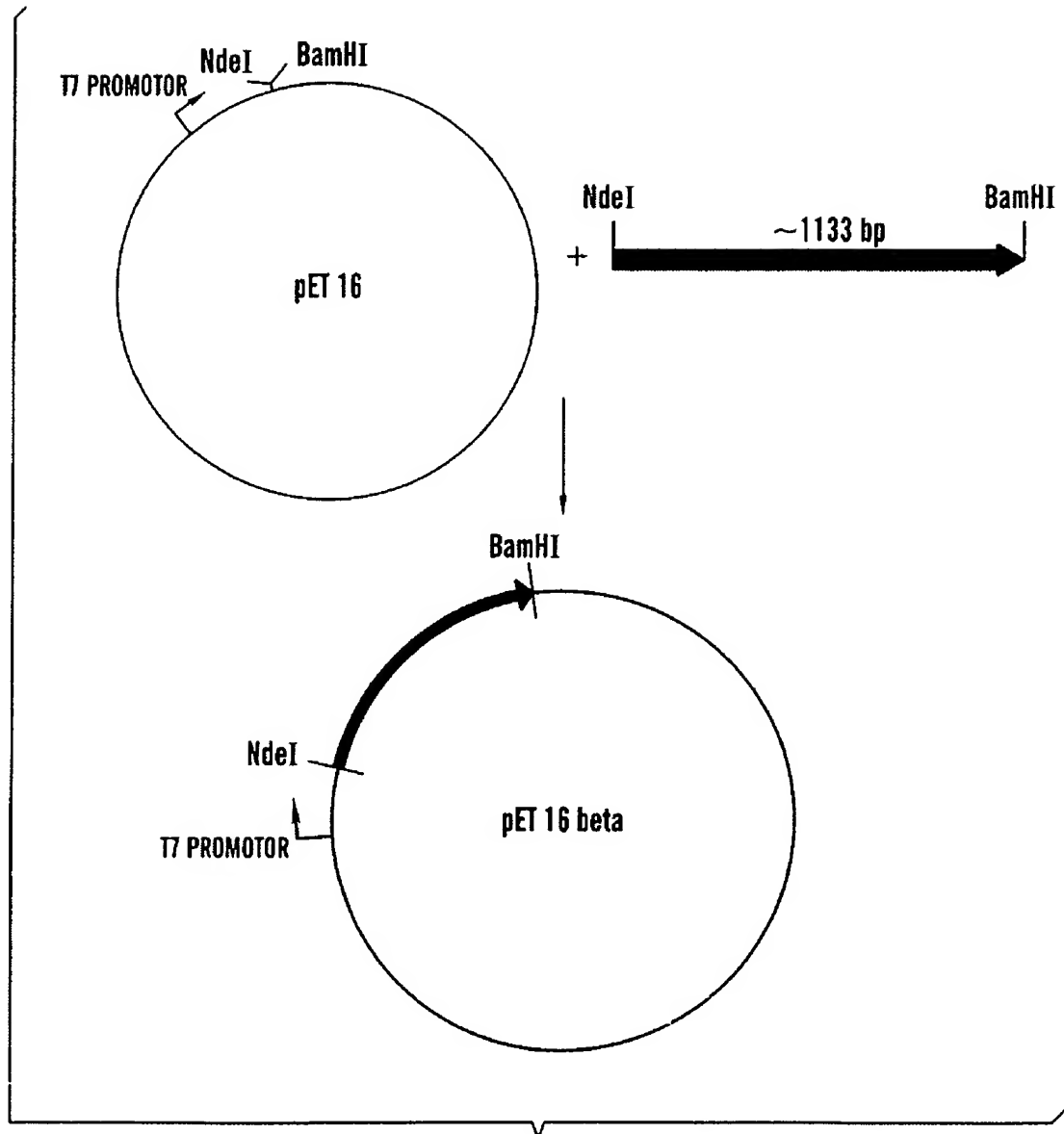


FIG. 3

REPLACEMENT SHEET

4/29

INDUCTION



FIG. 4A

NICKEL COLUMN

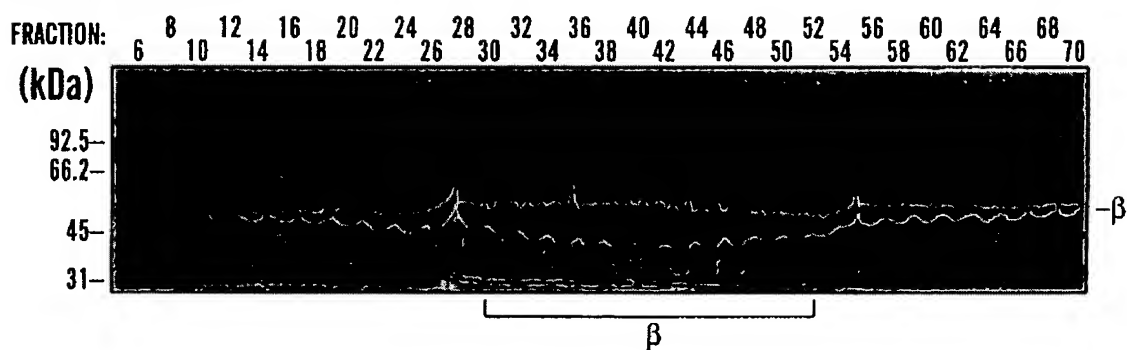


FIG. 4B

MONO Q

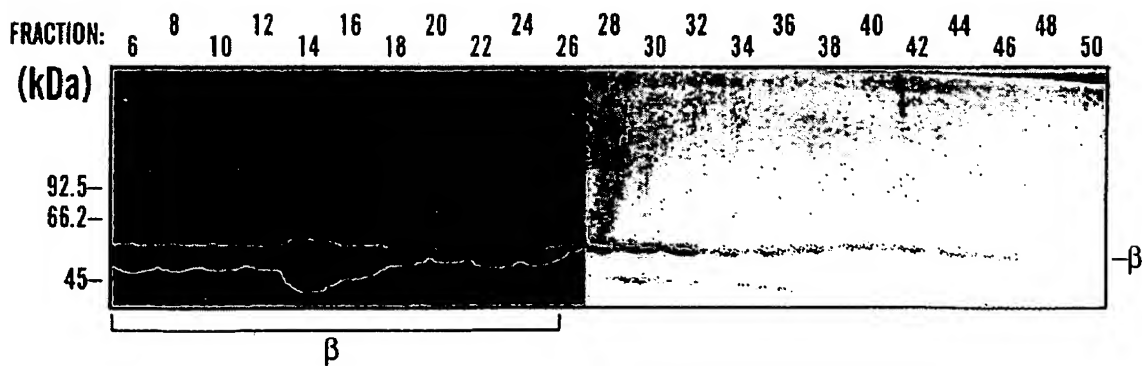


FIG. 4C

REPLACEMENT SHEET

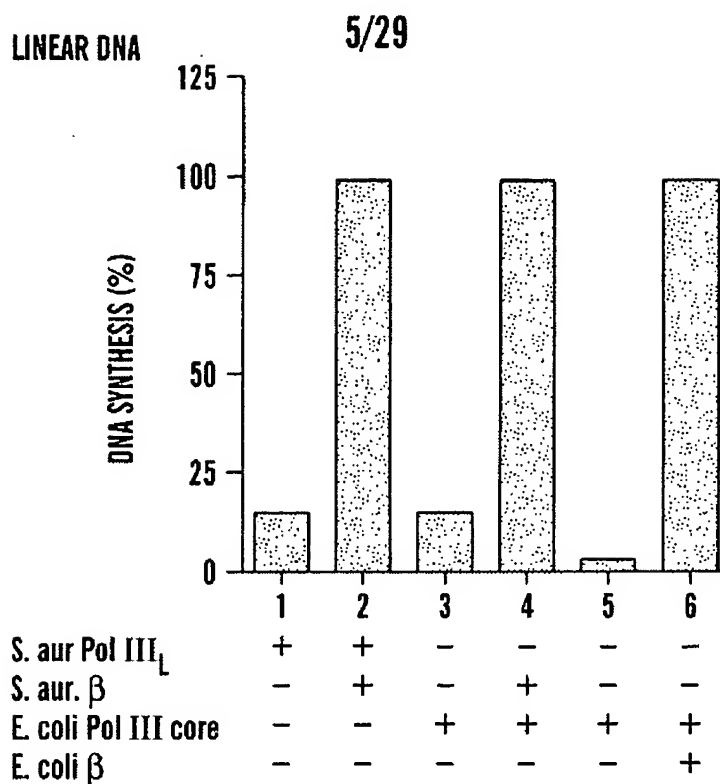


FIG. 5A

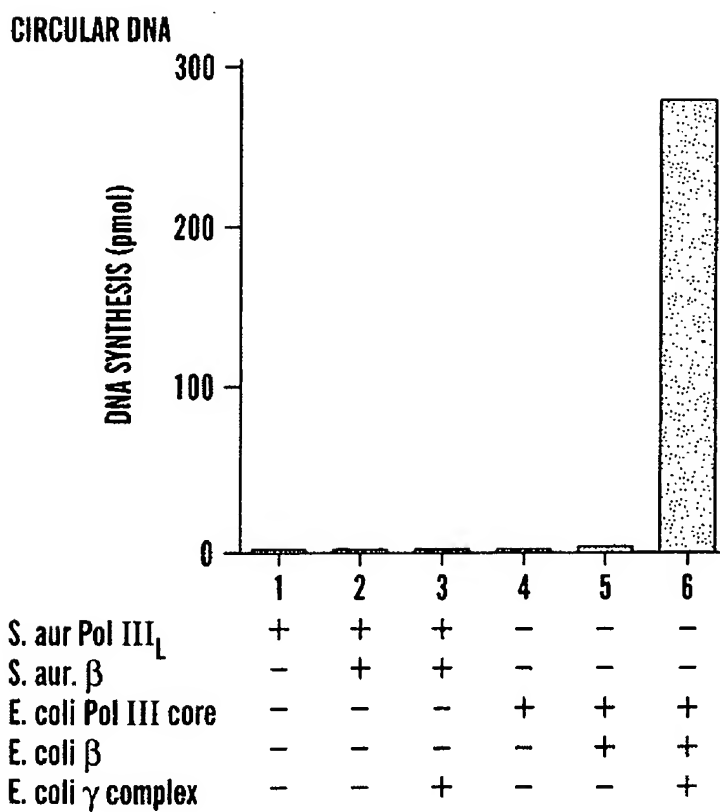


FIG. 5B

REPLACEMENT SHEET

6/29

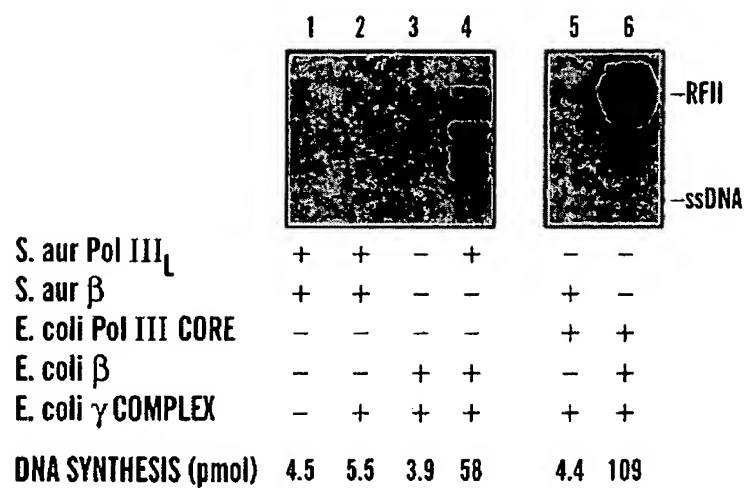


FIG. 6

REPLACEMENT SHEET

7/29

MonoQ

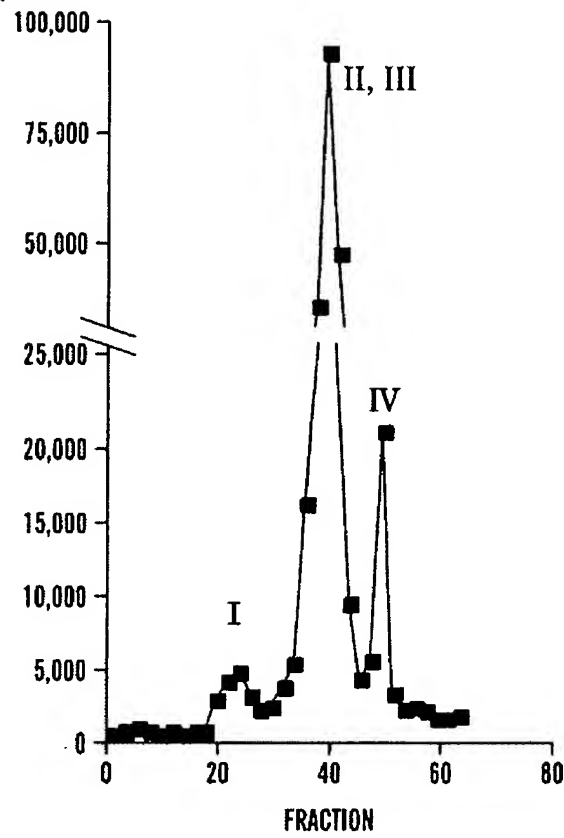


FIG. 7A

P-Cell

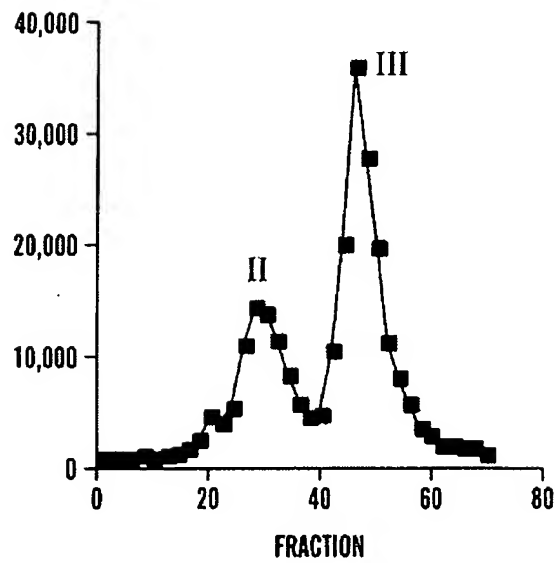


FIG. 7B

REPLACEMENT SHEET

8/29

AGAROSE GEL

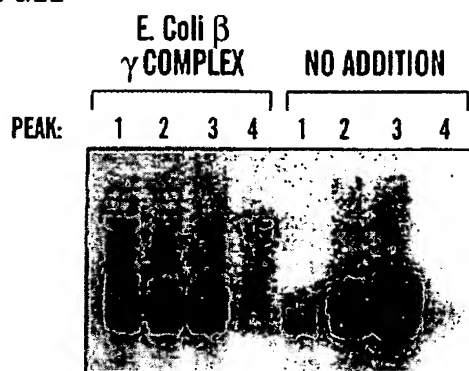


FIG. 8A

DNA SYNTHESIS

ADDITION	DNA SYNTHESIS (PMOI) PEAK			
	PEAK 1	PEAK 2	PEAK 3	PEAK 4
NONE	22.7	70.6	146.1	4.7
E. coli β , γ COMPLEX	72.9	61.2	71.4	25.9

FIG. 8B

REPLACEMENT SHEET

9/29

S. aureus	KIWRATCIWNCDFRSSACKAVAKDVGRIMGFDEVTLNEISSLI PHKLGITLDEAYQID-D
E. coli	MYGRDAVSQIIITFGTMAAKAVIRDVGRVLGHPYGFVDRI SKLIPDPGMTLAKAFEAEFPQ
Sal. typ	MYGRDAVSQIIITFGTMAAKAVIRDVGRVLGHPYGFVDRI SKLIPDPGMTLAKAFEAEFPQ
S. aureus	FKKFVHRNHRHQRWFSICKKLEGLPRHTSTHAAGI IINDHPLYEYAPLTCKGDTG--LLTQ
E. coli	LPEIYEADEEVKALIDMARKLEGVTRNAGKHAGGVIAPTKITDFAPLYCDEEGKHPVTQ
Sal. typ	LPEIYEADEEVKALIDMARKLEGVTRNAGKHAGGVIAPTKITDFAPLYCDEEGKHPVTQ
S. aureus	WMTPEAERIGLLKIDFLGLRNL SIHQILTRVEKDLGN-----IDIEKIPFDDQKVFEIJ
E. coli	FDKSDVEYAGLVKFDLGLRNL TIINWALEMINKRRRAKNGEPPLDIAAIPLDDKKSFDML
Sal. typ	FDKSDVEYAGLVKFDLGLRNL TIINWALEMINKRRRAKNGEPPLDIAAIPLDDKKSFDML
S. aureus	SQGDTTGTIFQLES DGVSVLKCLKPEHFEDIVAVTSLYRPGPMEE--IPTYITRRHDP S-
E. coli	QRSETTAVFQLES RGMKDLIKRLQPCDFEDMIALVALFRPGPLQSGMVDNFIDRKHGREE
Sal. typ	QRSETTAVFQLES RGMKDLIKRLQPCDFEDMIALVALFRPGPLQSGMVDNFIDRKHGREE
S. aureus	----KVQYLHPHLEPILKNVTYGVITYQEQIMQIASTFANFSYGEADILRRAMSKKNRAVL
E. coli	ISYPDVQWQHESLKPVLEPTYGIILYQEQVMQIAQVLSGYTLGGADMLRRAMGKKKPEEM
Sal. typ	LSYPDVQWQHESLKPVLEPTYGIILYQEQVMQIAQVLSGYTLGGADMLRRAMGKKKPEEM
S. aureus	ERDAQHFIEGTKQNGYHEDI SKQIFDLI-----
E. coli	AKQRSVFAEGAENGINAEELAMKIFDLVEKFPAGYGFNKSASHSAAYALVSYQTLWLKAHYPA
Sal. typ	AKQRSVFEEGAENGINAEELAMKIFDLVEKFPAGYGFNKSASHSAAYALVSYQTLWLKAHYPA

FIG. 9

10/29

MKGYCLWRCNLDYQALFVVVPTP--KFEDVVGQEHSEDCAMG-----SHAYLFSGPRGTGKT
 -----MSYQALYRVFRPQRFEDVVGQEHITKTQLNALLQKFSHAYLFSGPRGTGKT
 -----MSYQVLARKWRPQTFADVVGQEHVLTALANGLSLGRHHAYLFSGTRGVGKT
 ** * * * * *

! ! !
SIAKVF AKA INCLNSTDGEPCNECHICKITQGTNSDVIEIDAASNNGVDEIRNIRDVKVYA
SAAKI FAKAVNCHEAPVDPECNAACKITNGISIDVIEIDAASNNGVDEIRDIRDKVKFA
SIALLLAKGLNCETGITATPCGVCNDCREIEQGFRFVDLIEIDAASRTKVEDTRDLLDNVQYA
* * . . *

PSESKYKVYIIDEVHMLTTGAFNALLKLTLEPPAHAIFILATTEPHKIPPTIIISRA
 PSAVTKVYIIDEVHMLSIGAFNALLKLTLEEPPEHCIFILATTEPHKIPPTIIISRC
 PARGRKFVYLIDEVHMLSRHSFNALLKLTLEEPPEHVKFLATTDQPQLPVTLISRC
 *, ***, *****, **, *****, *, *****, *, *****, *, *****, *, **

FIG. 10

11/29

FIG. 11

REPLACEMENT SHEET

12/29

B.sub.yqen E.c.delta	MVFDVWKSILKK--GE-VHPVYCLYQKETYLLQETVSRIRQTVVDQETKDFNLSVFDLEED MIRLYPEQLRAQLNEGLRAAYLLGNDPILLQESQDAVRQVAAAQGFEEHHTFSIDPNTD * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	59
B.s.yqen E.c.delta	PLDQAIADAETFPFNGERRLVIVKMPYFLTGEKKKKIEHNVSALESYIQSPAPYTVFVL -WMAIFSLCQAMSLFASRQTLLLLLP--ENGP--HAAINEQLLTLTOLLED--DILLIYR : : : : : : : * : . . * : . . * : . . * : . . * : . .	117
B.s.yqen E.c.delta	LAPYKKLDERKKLTALKKHAFMGEAKELHAKETTDFTVHLAKTEQKTIQTEAAKHLVLL GKHLKSAQENAAWFTALANRSVQVTCQTPEQAQLPRVVAARAKQLNLELDDAANQVLCYC * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	125
B.s.yqen E.c.delta	VNGHLSIFQEIQKLCFTFIGDREEITLDDVGMVARSLEQNIPELINKIVNRKRTESLQI YEGHLLALAQAELRLSLNWPDK-LTLPRVEQAVEDAAHFTPFHWVDALLMGKSKRALHI : : * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	235
B.s.yqen E.c.delta	FYDLLKQNEEPIKIMALISHQFRLILQTKYFAEQGYQKQIASNLKVHPPRVKLANDQAR LQQLRLEGSEPVILLRTLQRELLLVNLRQSAHTPLR-ALFDKRVVWQNRGMDGEALN : : * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	291
B.s.yqen E.c.delta	LFSEKELRLIIEQLAVMDYEMKT--GKKDKQLLELFLQLLQ--RNEKNDPHY RLSQTQLRQAVQLLRTLTTLKQDYGGQSVMAELEGLSLLCHKPLADVFDG-- : : * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	343

FIG. 12A

B.s.yqen S.p. delta	-MVFDVWKSILKKGEVHPVYCLYQKETYLLQETVSRIR-QTVVDQETKDFNLSVFDLEEDP MIAIEKIEKLSKENLGLITLVGDDIGQYSQLKSRLEQIAFDKD--DLAYSFYDMSEAA : : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	59
Bsub.yqen S.p. delta	LDQAIADAETFPFNGERRLVIVKMPYFLTGEKKKKIEHNVSALESYIQSPAPYTVFVL YQDAEMDLVSLPFAEQKVIFDHELDITTHKKSFLKCKDLKAFAYLENPLETTRLIIF : : * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	117
Bsub.yqen S.p. delta	APYKKLDERKKLTALKKHAFMGEAKELHAKETTDFTVHLAKTEQKTIQTEAAKHLVLLV AP-GKLDKRRRLVKLLFRDALVLEANPL--KEAELRTYPQYSHQLGLGFESQAFDQLLL * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	125
Bsub.yqen S.p. delta	WGHLSIFQEIQKLCFTFIGDREE---ITLDDVGMVARSLEQNIPELINKIVNRKRTESL KSNDD--FSQIMQGMFLKAYKKTGNISLTDIEQAIPKSLQDMIFD-VTRLVLRQKIDAA : : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	235
Bsub.yqen S.p. delta	Q-IFYDLLKQNEEPIKIMALISHQFRLILQTKYFAEQGYQKQIASNL-----KVHPPR RDLIHDRLSGEDDIKLIAMLQGFRLFLQLTILARDVKNQQLVISLSDILORRVNPHYQ : : : : * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	291
Bsub.yqen S.p. delta	VKLANDQARLFSEKELRLIIEQLAVMDYEMKTGKKDKQLLELFLQLLQ--RNEKNDPHY VKYALKDSRTLSLAFLTGAVKTLIETDYQINTGLYEKSYLVDIALLKIMTHSQK----- * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . . * : . .	343

FIG. 12B

REPLACEMENT SHEET

13/29

<i>S. aureus</i> α -L/ β :	+	+	+
<i>S. aureus</i> $\tau\delta\delta'$ (ng):	-	30	90

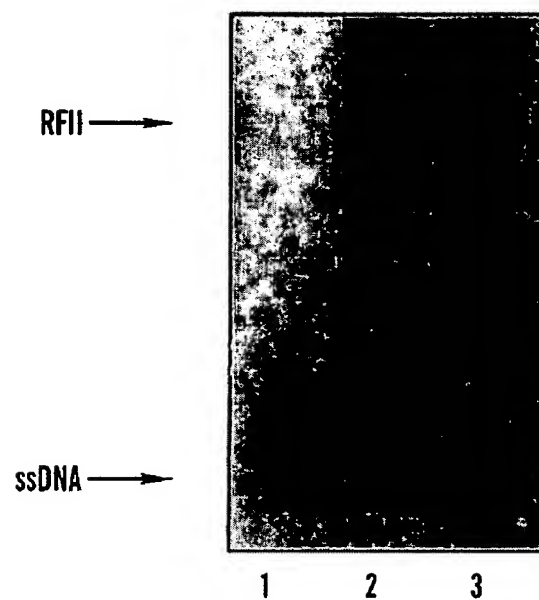


FIG. 13

REPLACEMENT
SHEET

14/29

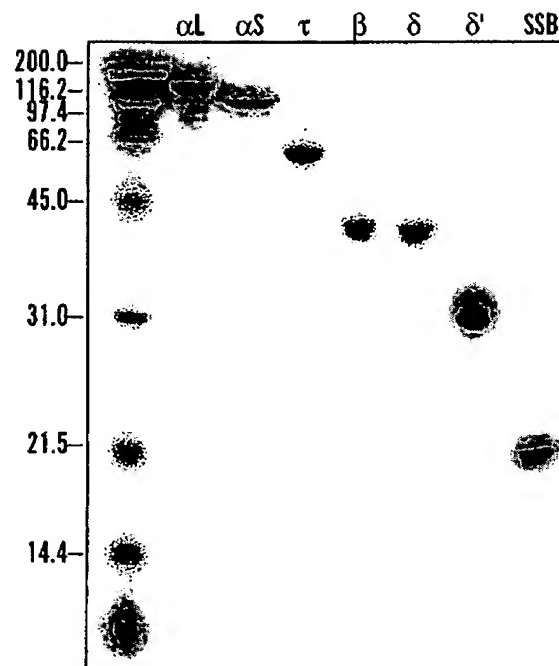


FIG. 14

REPLACEMENT SHEET

15/29

SUPERROSE 6

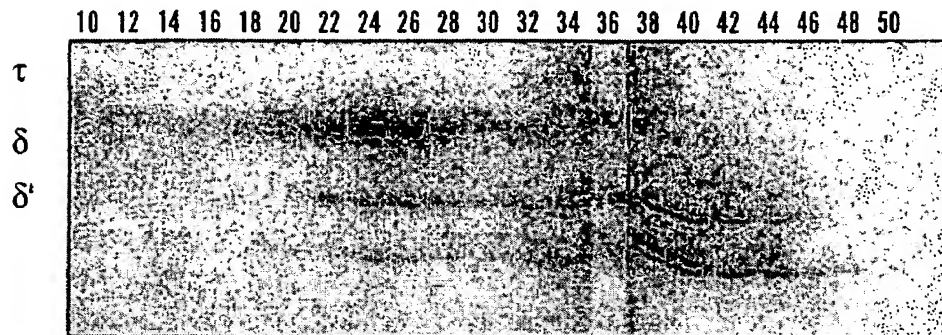


FIG. 15A

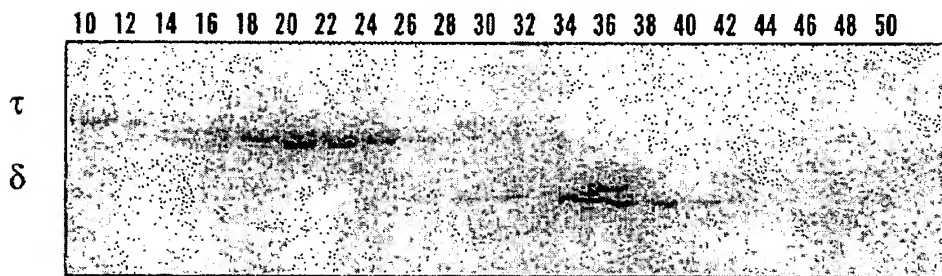


FIG. 15B

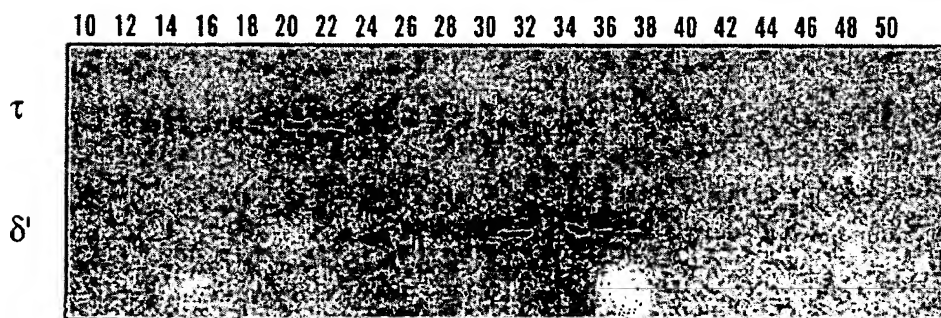


FIG. 15C

REPLACEMENT SHEET

16/29

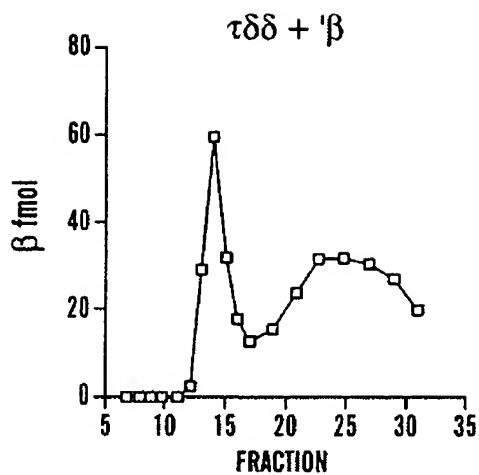


FIG. 16A

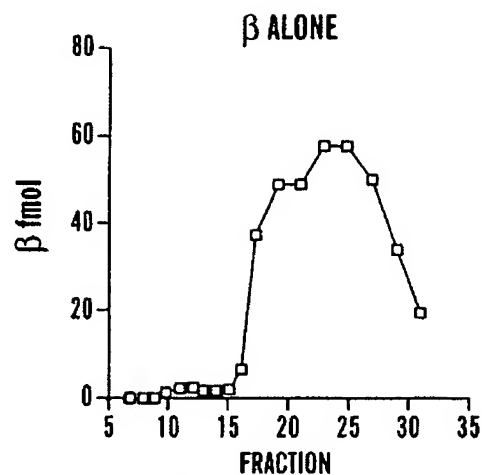


FIG. 16B

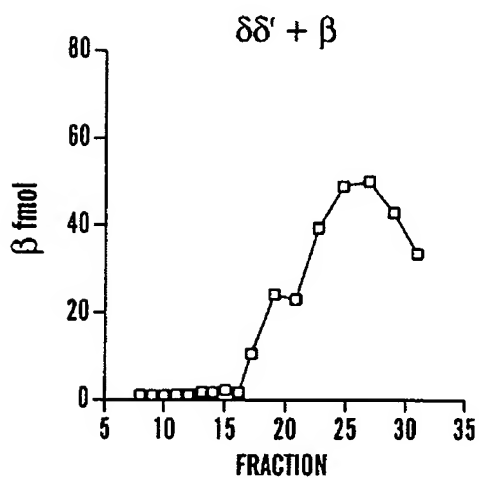


FIG. 16C

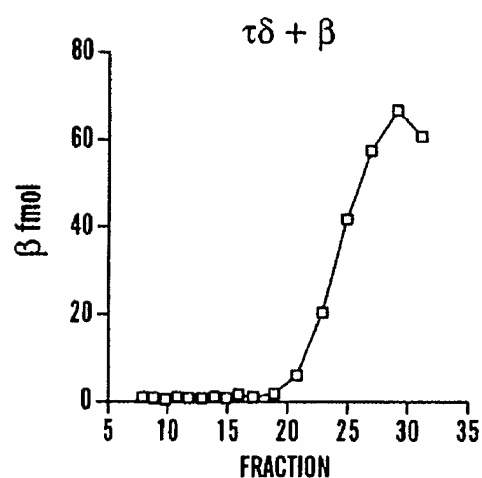


FIG. 16D

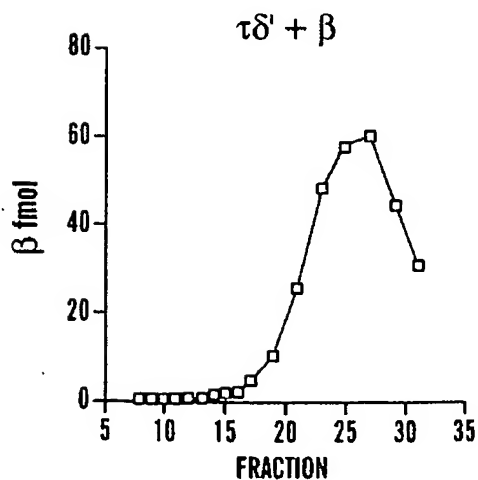
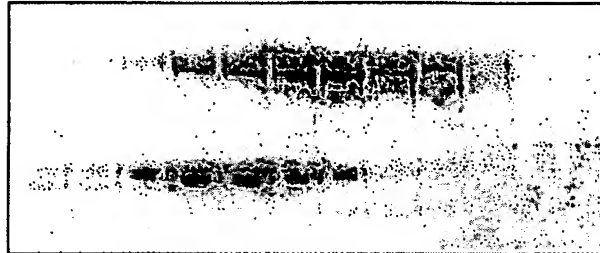


FIG. 16E

REPLACEMENT
SHEET

17/29

24 26 28 30 32 34 36 38 40 42 44 46 48



← α LARGE

← τ

FIG. 17A

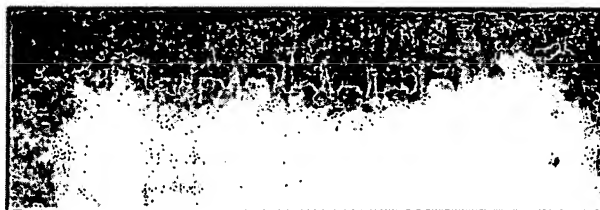
24 26 28 30 32 34 36 38 40 42 44 46 48



← τ

FIG. 17B

24 26 28 30 32 34 36 38 40 42 44 46 48



← α LARGE

FIG. 17C

REPLACEMENT
SHEET

18/29

SUPEROSE 6

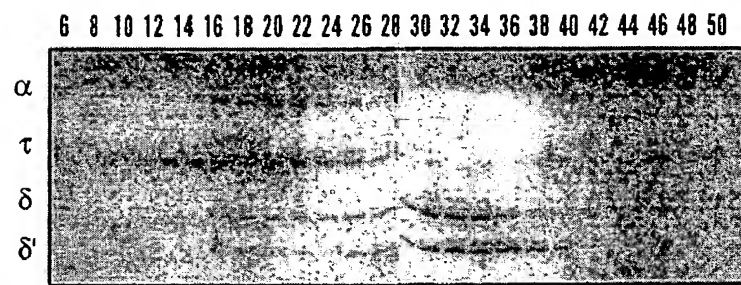


FIG. 18

19/29

FIG. 19

REPLACEMENT SHEET

20/29

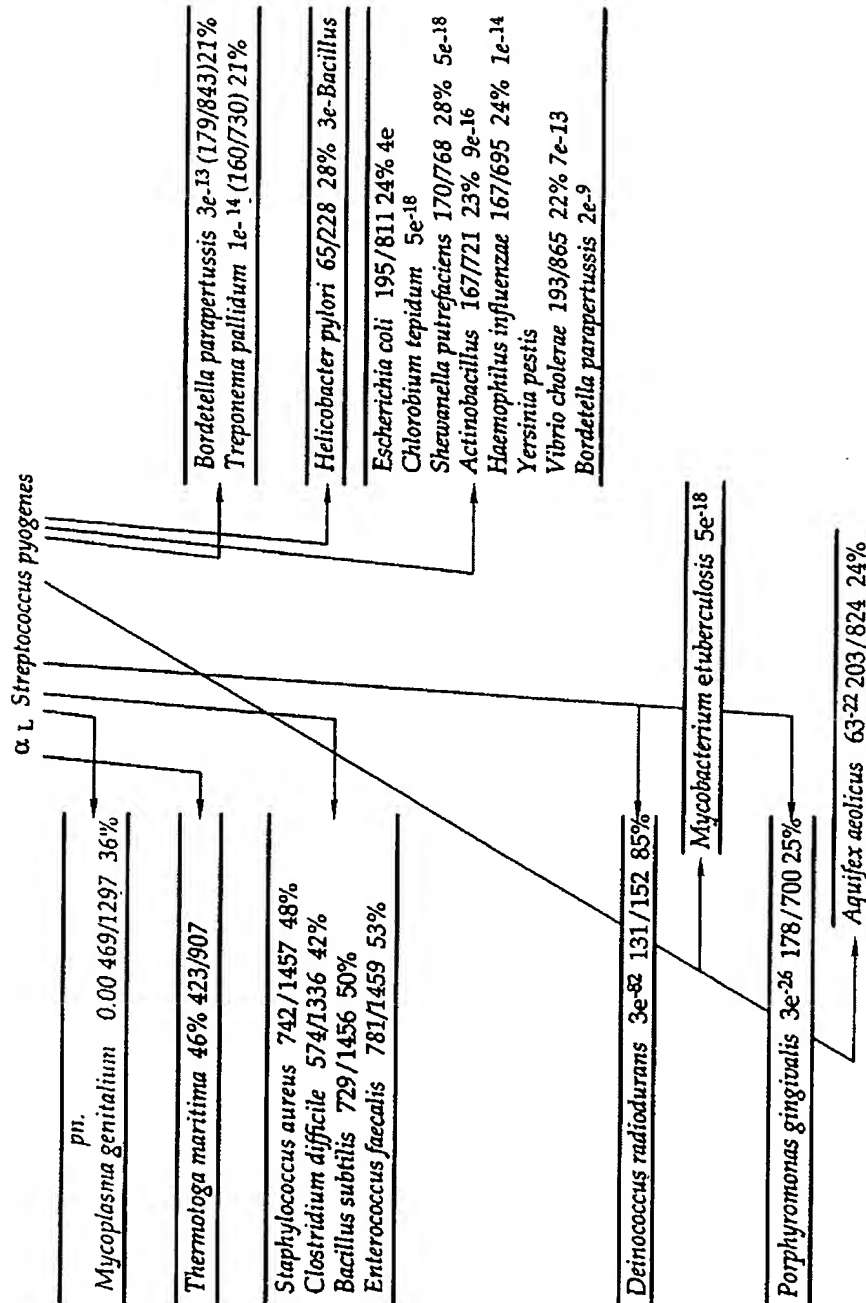


FIG. 20A

REPLACEMENT SHEET

21/29

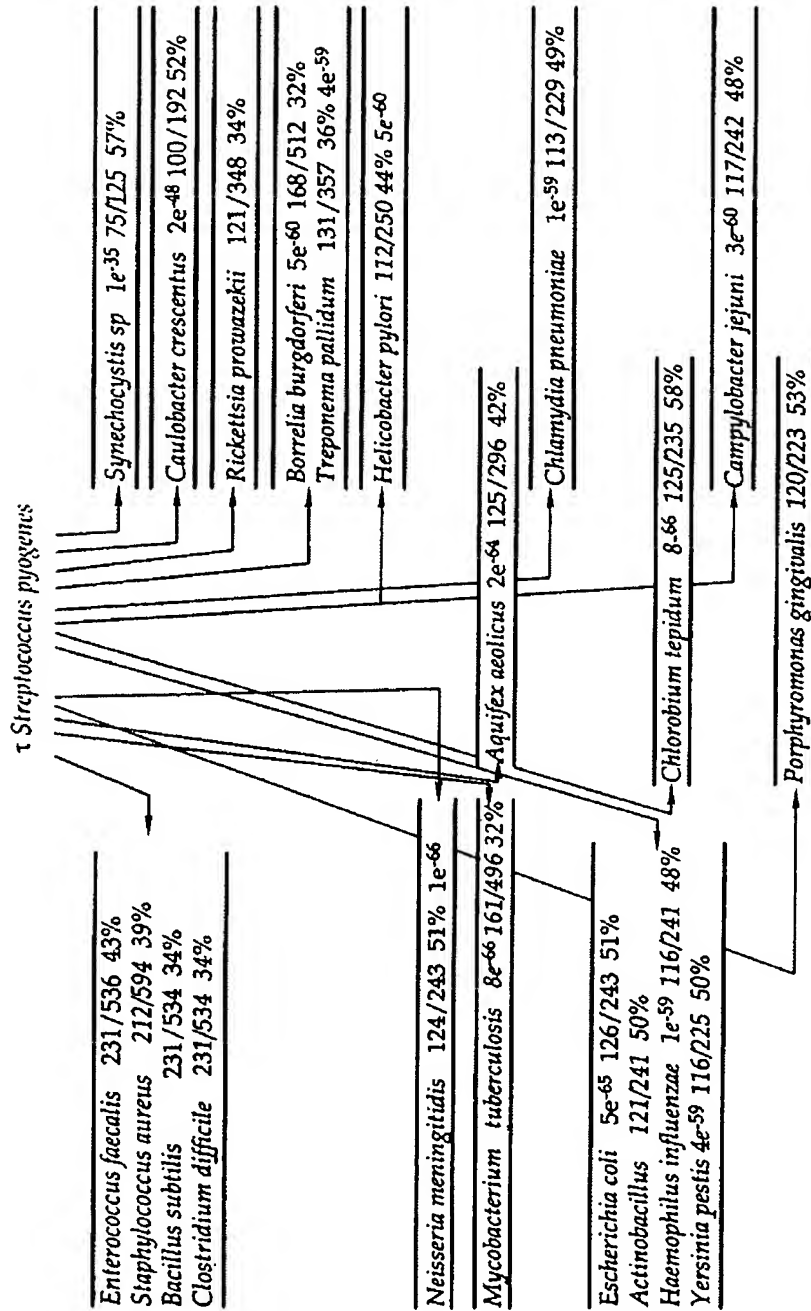


FIG. 20B

22/29

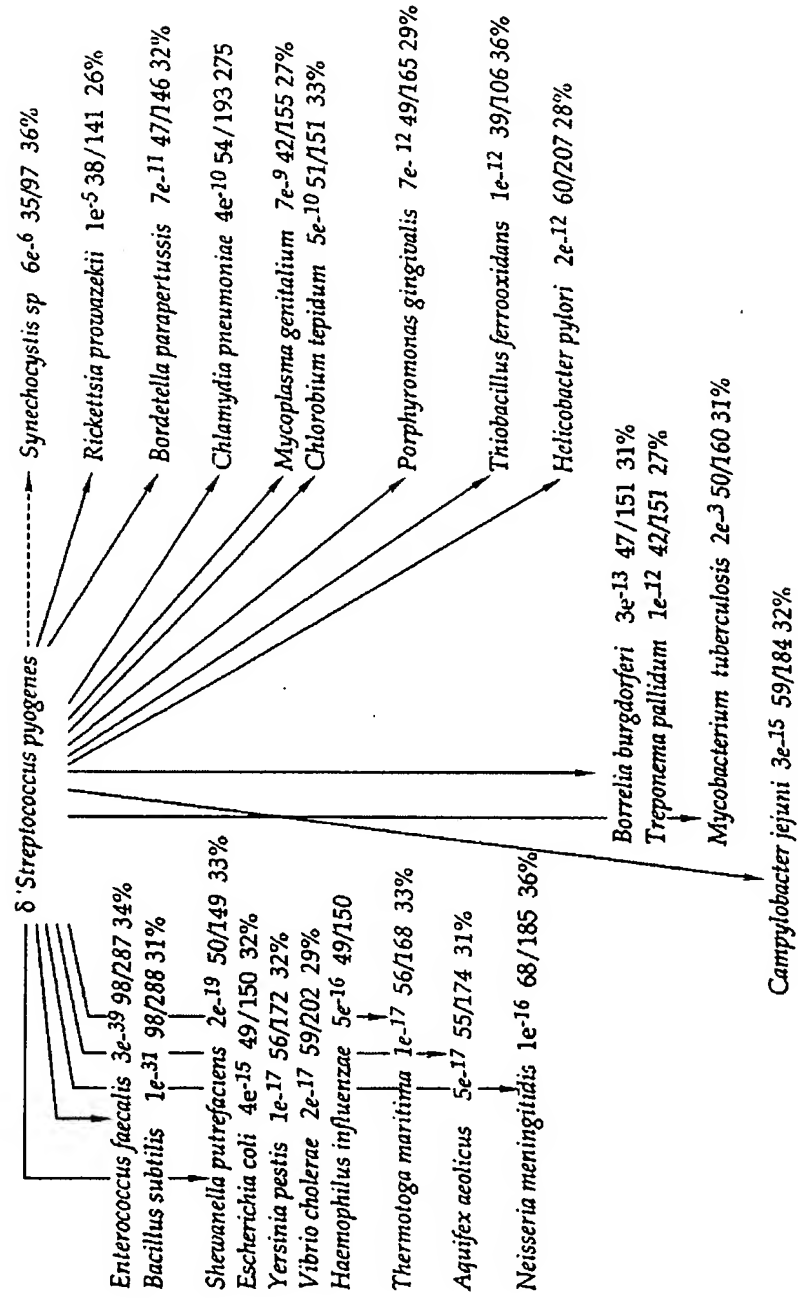


FIG. 20C

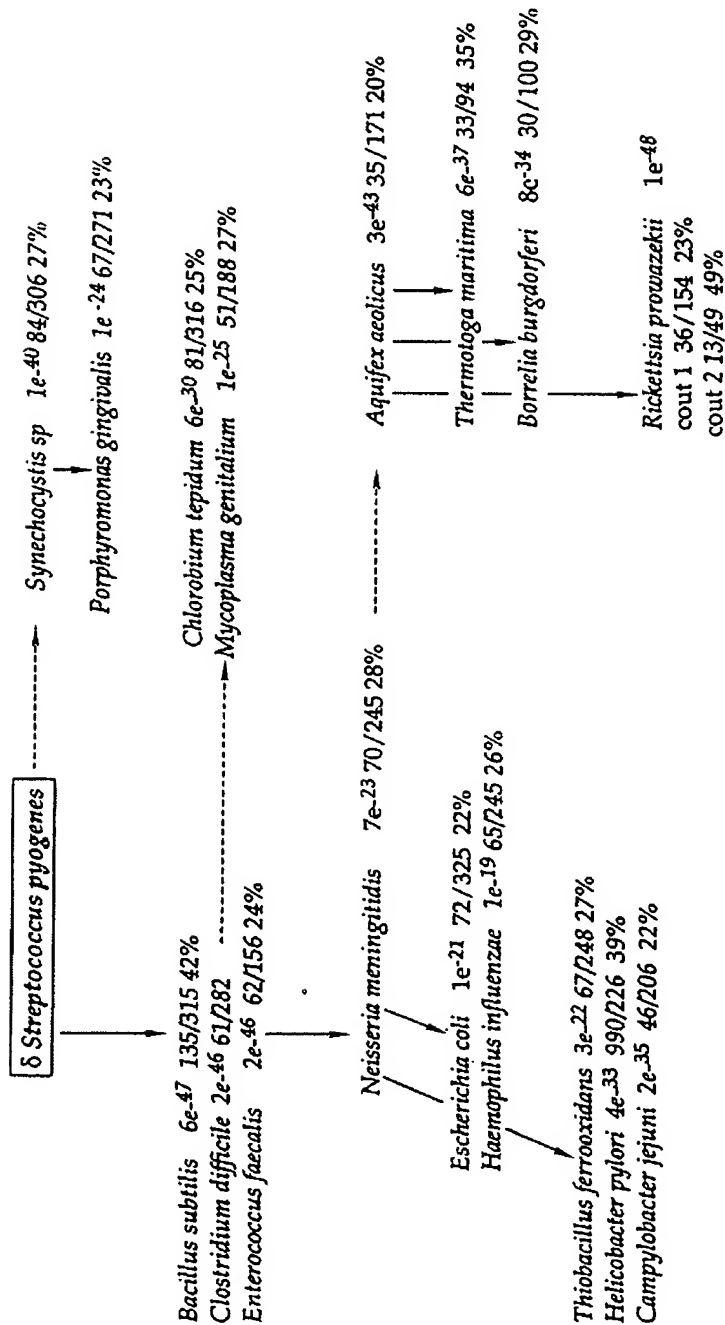


FIG. 20D

24/29

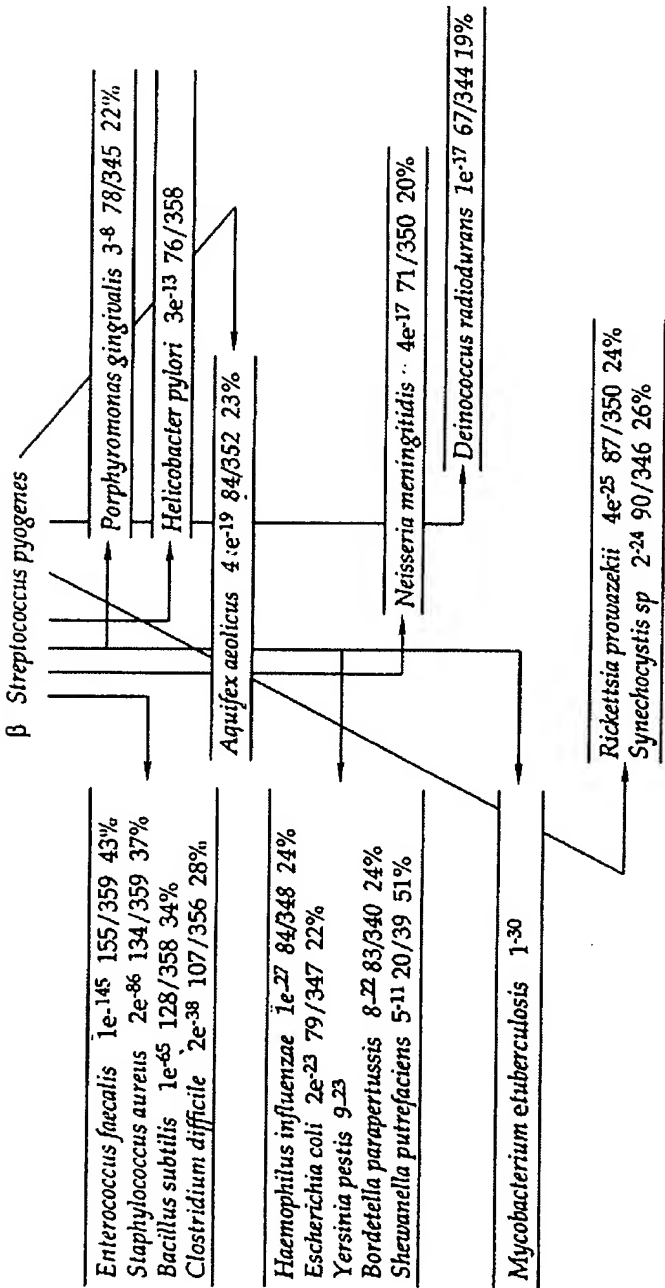


FIG. 20E

REPLACEMENT SHEET

25/29

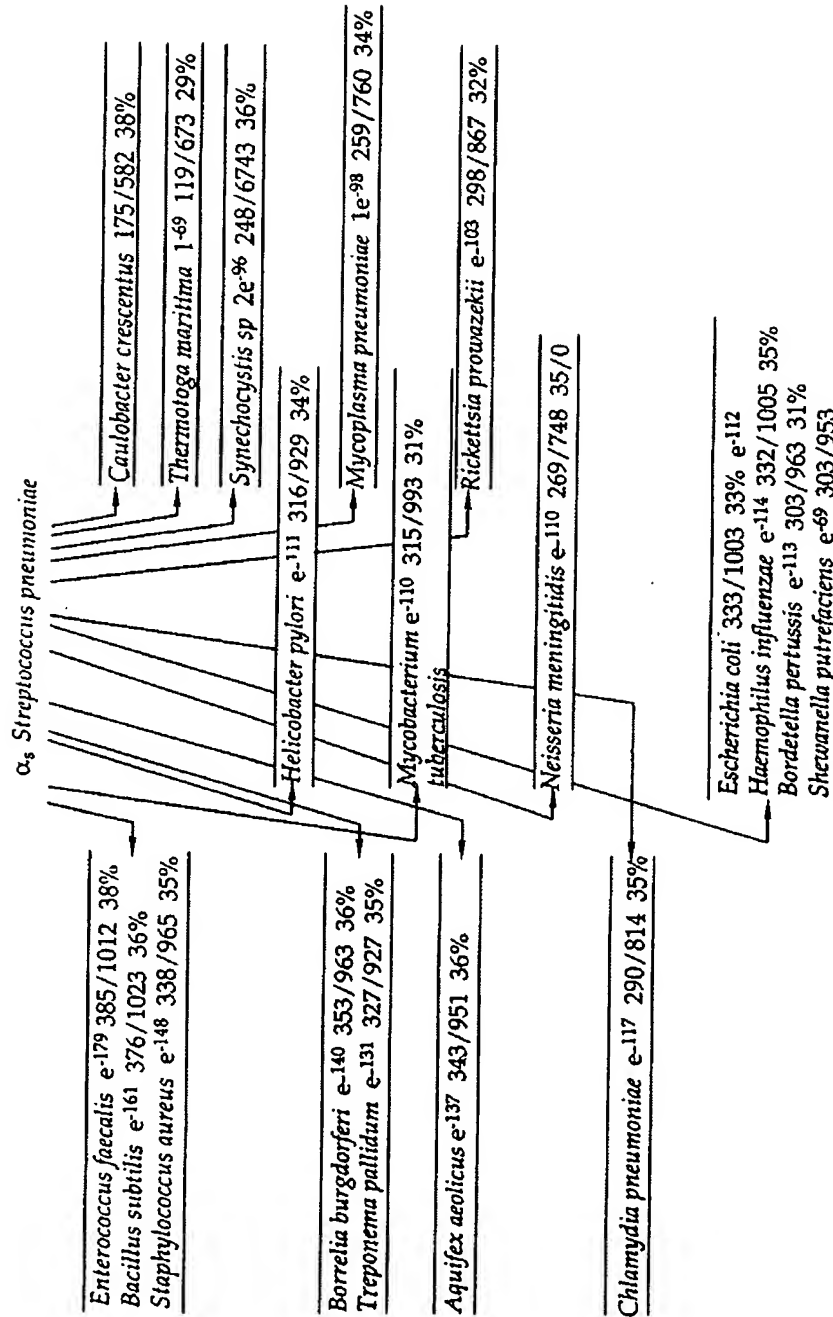


FIG. 20F

REPLACEMENT SHEET

26/29

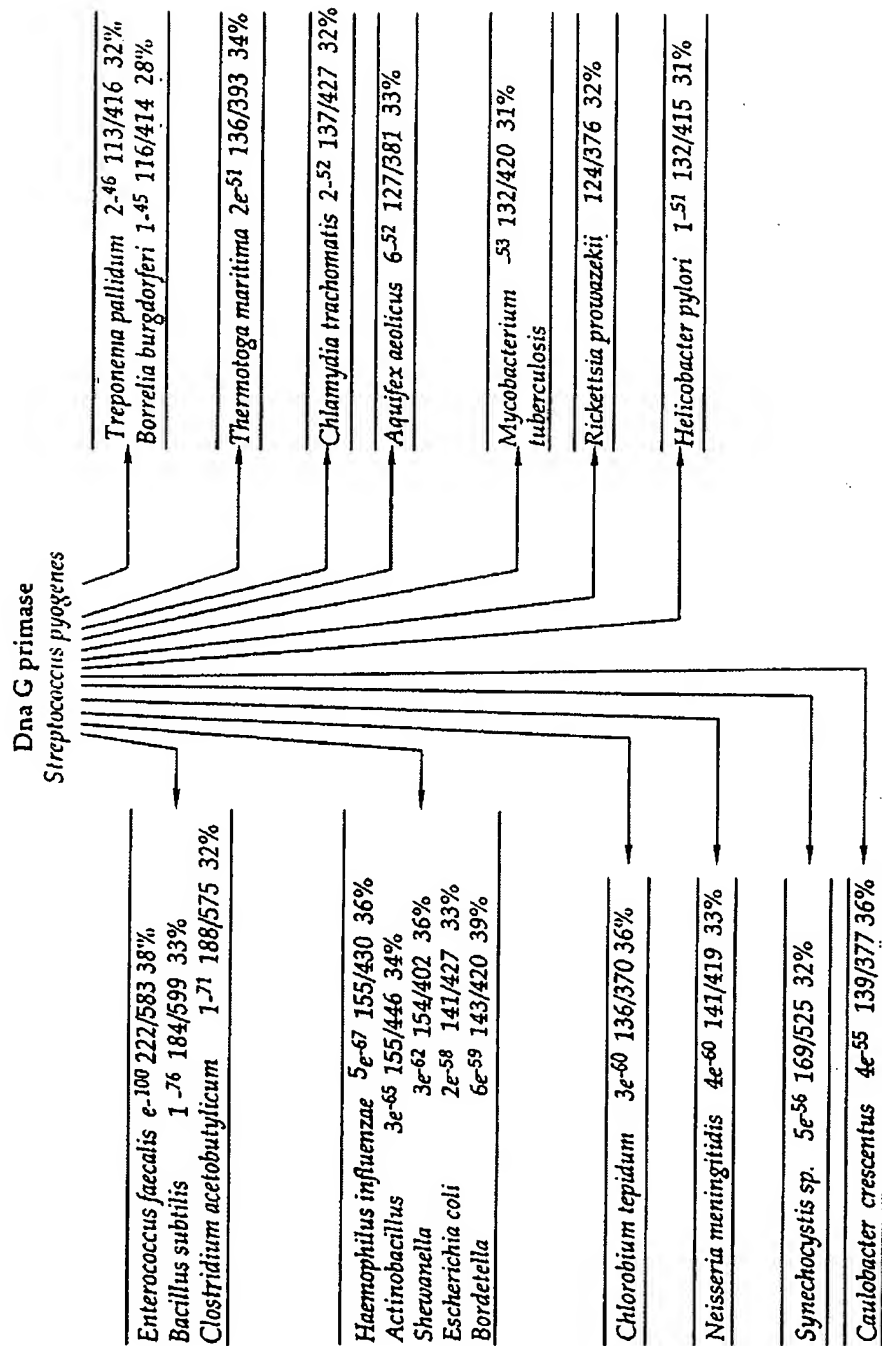


FIG. 20G

REPLACEMENT SHEET

27/29

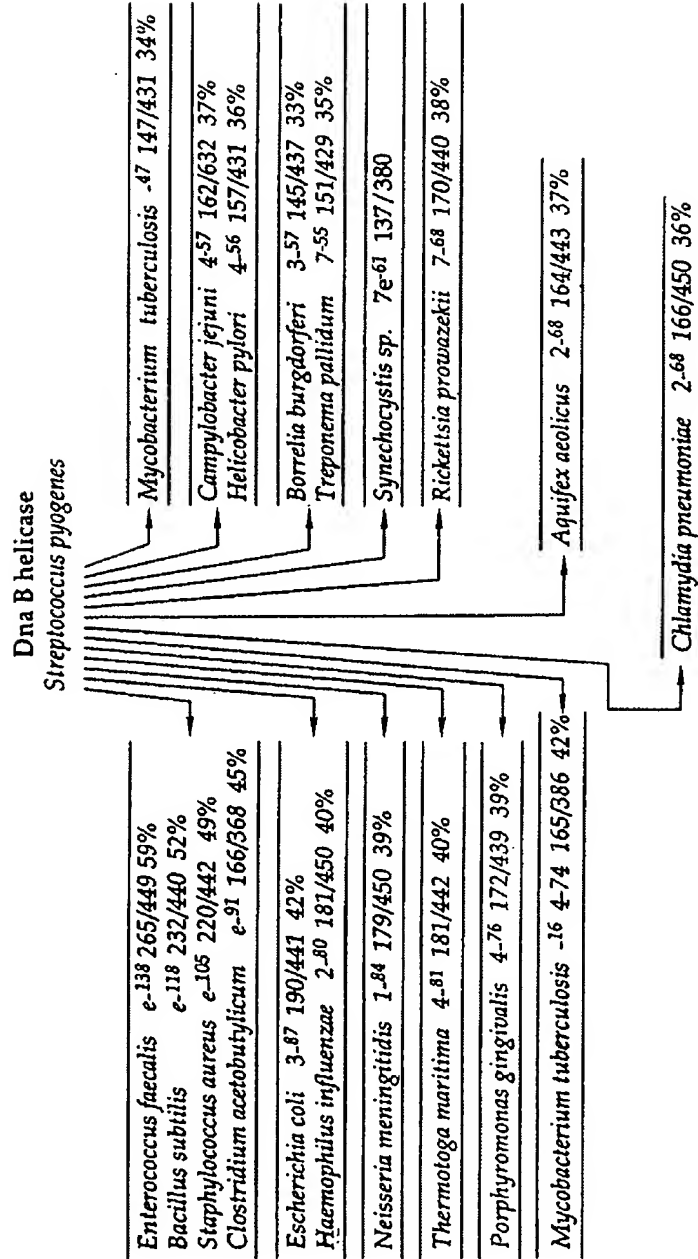


FIG. 20H

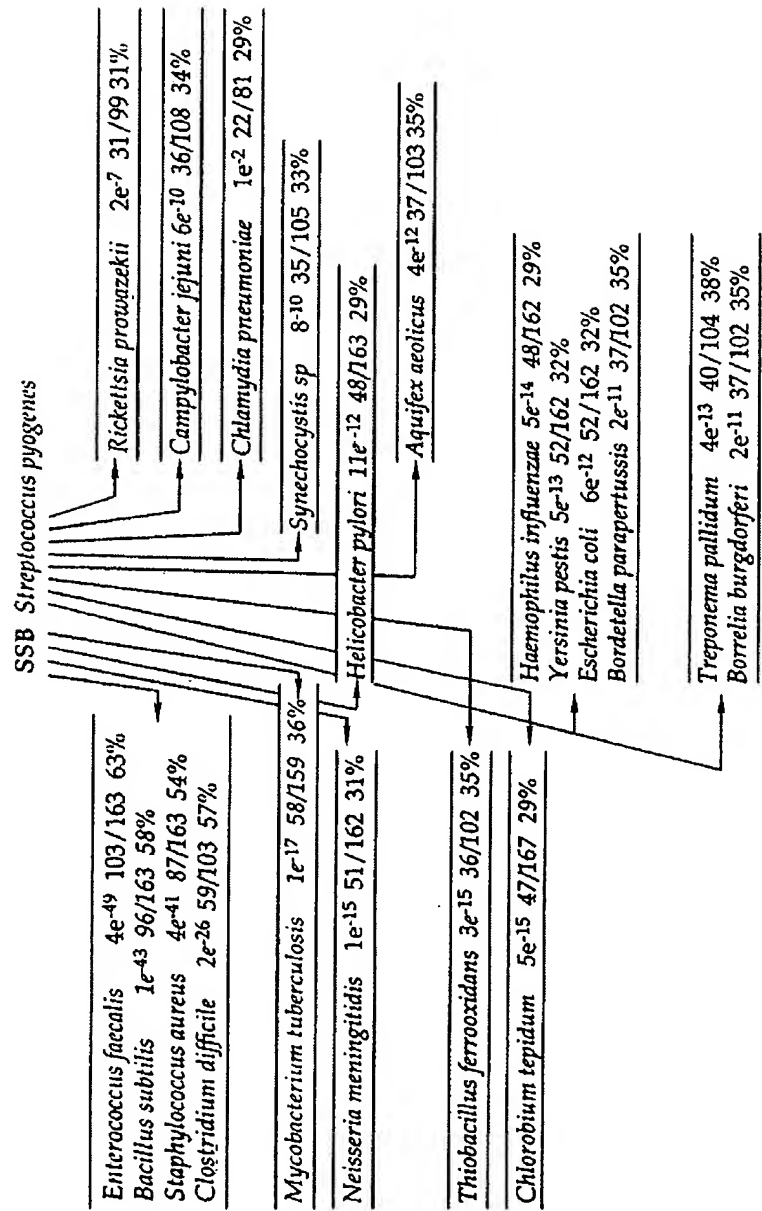


FIG. 201

FIG. 21A

29/29

FIG. 21B

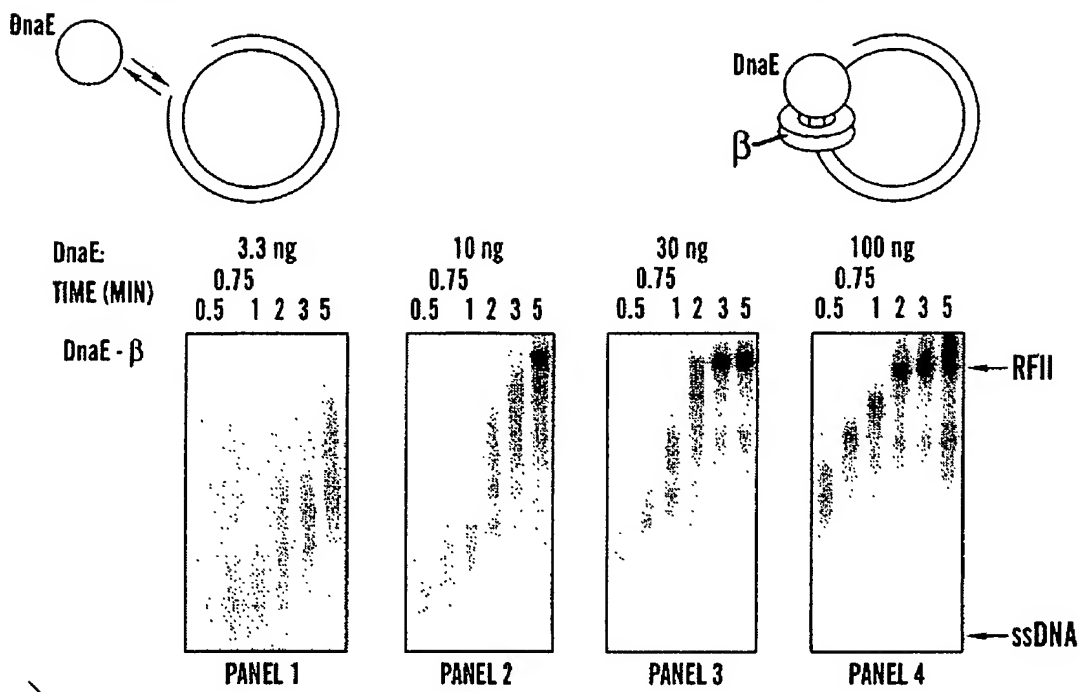


FIG. 21C

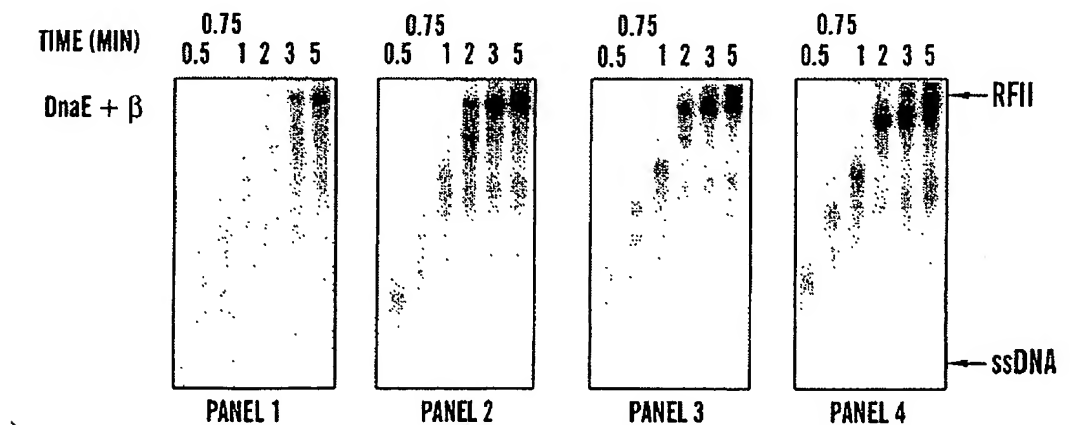


FIG. 21D

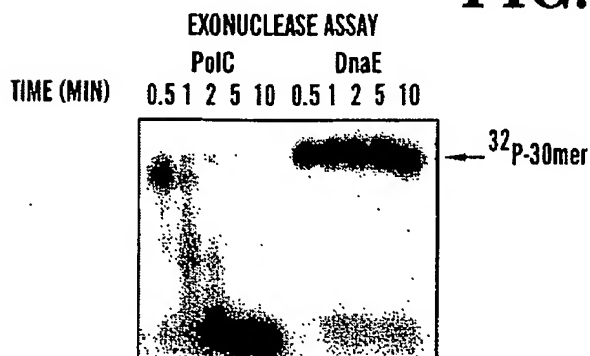


FIG. 21E

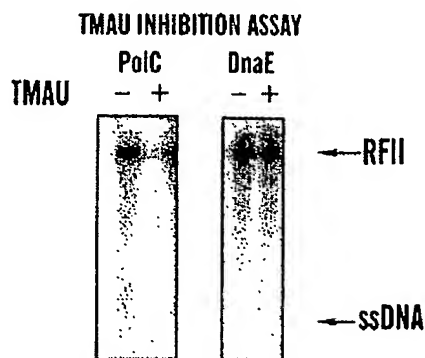


FIG. 21F